

ATTACHMENT F
COASTAL ZONE ENVIRONMENTAL IMPACT OFFSET MATRIX

Applicant: **Croda Inc**
Project: **Combined Heat & Power Project 2**
Application Date: **August 1, 2017**
CZA Offset Review Reference: (DNREC Only)

Amendments:
Offset Review Date: (DNREC Use Only)
Matrix Amended:

ENVIRONMENTAL IMPACTS	(Applicant's Use) DESCRIBE ENVIRONMENTAL IMPACTS	PAGE NO.	(Applicant's Use) DESCRIBE ENVIRONMENTAL OFFSET PROPOSAL ¹	PAGE NO.	(DNREC Use Only) OFFSET SUFFICIENCY Yes, No or N/A
Air Quality (Applicant to List Below by Parameter)					
NOx CO Sox Particulates (PM) CO2	New emissions from 2 Megawatt Generator	11	The project will offset the new emissions from the generator by: <ul style="list-style-type: none">eliminating current emissions from flaring the landfill gas at Cherry Island Landfill,reducing current Croda boiler emissions by using generator exhaust heat to produce steam,reducing current Croda boiler emissions by using the engine cooling system heat to pre-heat boiler feed water, andreducing utility electric generation emissions by avoidance of the purchase of 2 megawatts of electric on average per day.		
Water Quality	No new water discharges				
Surface					
Groundwater					
Water Quantity	No new water demands				
Surface					
Groundwater					
Water Use For:	No net increase in water usage				
Processing					
Cooling					
Effluent Removal					
Solid Waste	Minor increase in expendable supplies e.g. filters, oil, etc.				
Hazardous Waste	None				
Habitat	None				
Wetlands					
Flora Fauna					
Drainage/Flood Control	None				
Erosion ²	None – sediment and erosion control measures will be in place during construction				
Land Use Effects	None				
Glare					
Heat					
Noise					
Odors					
Vibration					
Radiation					
Electro-Magnetic Interference					
Other Effects					
Threatened & Endangered Species	None				
Impacts From:	Landfill Gas will be beneficially used rather than wasted by flaring				
Raw Material					
Intermediate Products					
By-Products					
Final Products					

¹ See paragraph I.1.b in "Secretary Assessment"

² Construction and normal operation